



# FEMA



Prepared by  
*Brian Hoeth*

# FEMA Region 6 Weather Threat Briefing

Thursday, September 20, 2018

**Disclaimer:** The purpose of this briefing is to provide a **Regional** weather threat assessment and is meant as a general overview. County/Parish decision makers should consult their local NWS forecast offices for the latest detailed, local weather information.

To find your local NWS forecast office, go to [www.weather.gov/srh](http://www.weather.gov/srh).

## Today

- **Areas of heavy rain/flash flooding in S NM into W TX and the TX/OK Panhandles.**
- **Minor to moderate river flooding will continue across S TX.**

## Friday - Saturday

- **Areas of heavy rain/flash flooding likely for central and southern OK (including OKC metro) with a more isolated threat into North/West/Central/South-Central TX and W AR**
- **Heavy rain/flash flood threat decreases slightly and moves eastward by Saturday afternoon; focus area shifts to SE OK into West/Central/Northern AR.**

## Sunday - Monday

- **Areas of heavy rain/flash flooding possible for AR.**

## Tropical Outlook

- **NHC is monitoring two areas in the Atlantic that have a low to medium chance of development in the next 5 days. Impacts to FEMA 6 appear unlikely at this time.**

# FEMA Region 6 Threat Matrix

Sept 20, 2018 – Sept 24, 2018



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DAY / THREAT	THU	FRI	SAT	SUN	MON
Severe Storms					
Heavy Rain / Flash Flooding	Southern NM, West TX, TX/OK Panhandles	Central & Southern OK, NW TX	Central & Southern OK, NW TX (thru early PM)	AR	AR
		North/West/Cntral/South- Central TX, W AR	SE OK into West/Central/North AR		
Fire Weather					
Tropical Weather					
River Flooding	STX	STX	STX	STX	STX

	No Weather Threats Expected
	Very Common – Happens Often
	Common – Happens Frequently
	Uncommon – A Few Times a Year
	Rare – Once Every 1-5 Years
	Very Rare – Once Every 5-10 Years

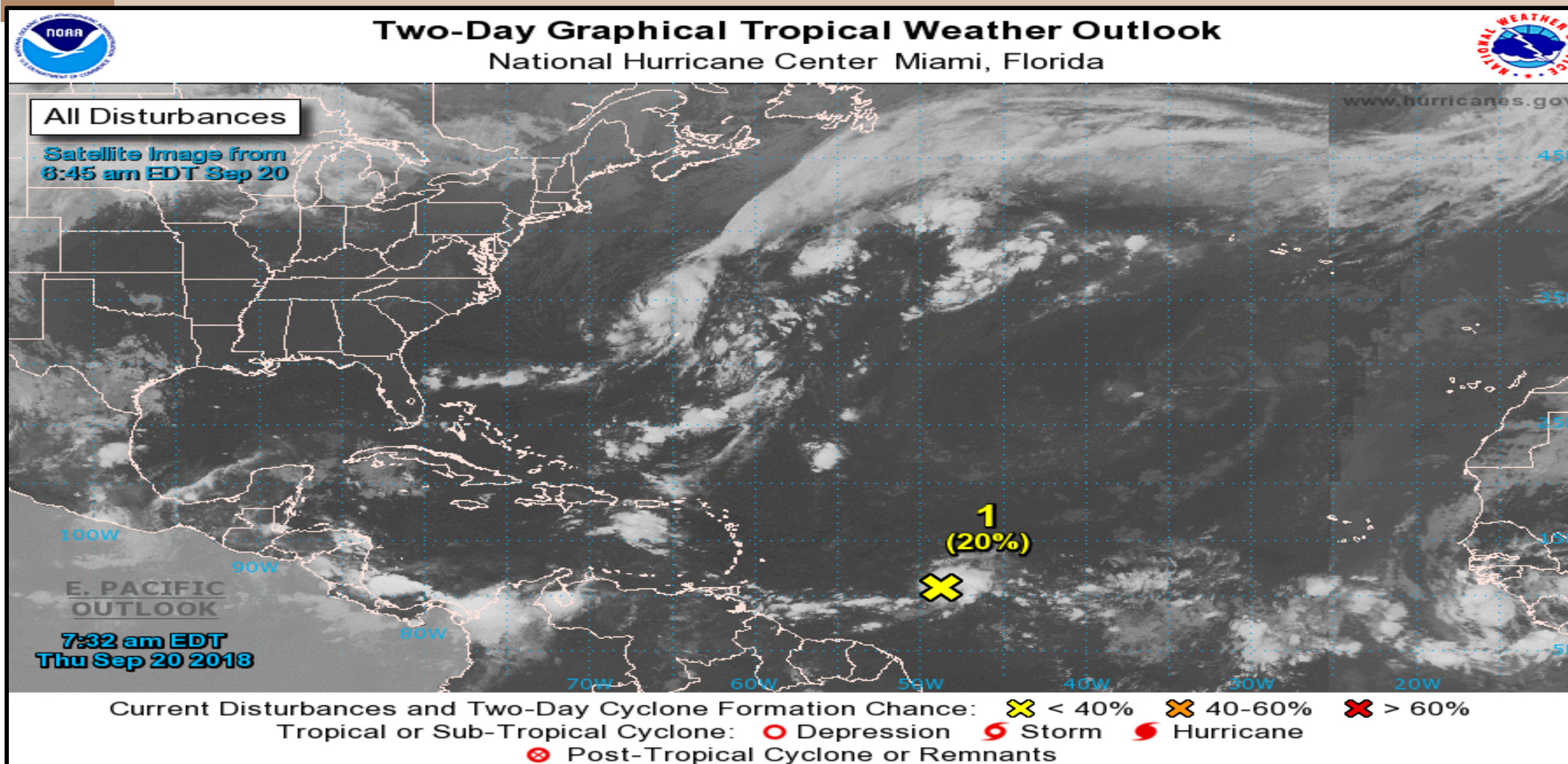
*\*Threat levels are based on FEMA Region 6 criteria.  
State or local threat level criteria may differ.\*  
For more details on the colors in the threat matrix refer to the last slide in this briefing.*



# Tropical Weather Outlook – Atlantic/Gulf



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**A concentrated area of thunderstorms associated with a westward-moving tropical wave is located about 850 miles east of the Windward Islands. Although this disturbance shows some signs of organization on satellite imagery, there is no evidence of a surface circulation at this time. Some additional development is possible today before upper-level winds become highly unfavorable for tropical cyclone formation starting tonight and continuing through the weekend.**

**\* Formation chance through 48 hours...low...20 percent.**

**\* Formation chance through 5 days...low...20 percent..**

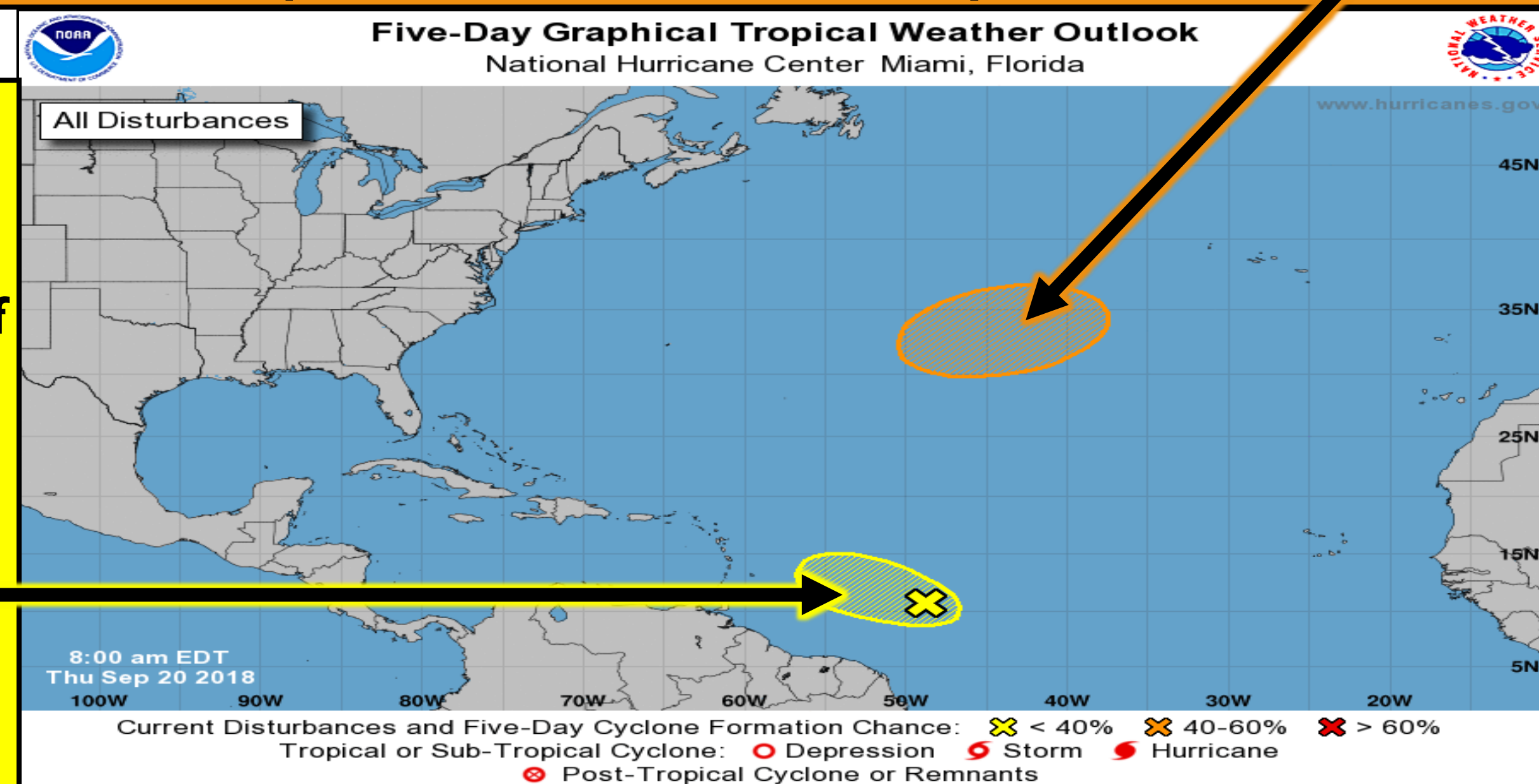
**Impacts to FEMA 6 look unlikely at this time.**

**A non-tropical low pressure system is forecast to develop by Friday night over the central subtropical Atlantic Ocean between Bermuda and the Azores. Conditions are expected to be conducive for the low to acquire some subtropical or tropical characteristics, and a subtropical or tropical cyclone could form over the weekend or early next week while the low meanders over the central Atlantic Ocean..**

**\* Formation chance through 48 hours...low...near 0 percent.**

**\* Formation chance through 5 days...medium...40 percent.**

**Impacts to FEMA 6 look unlikely at this time.**



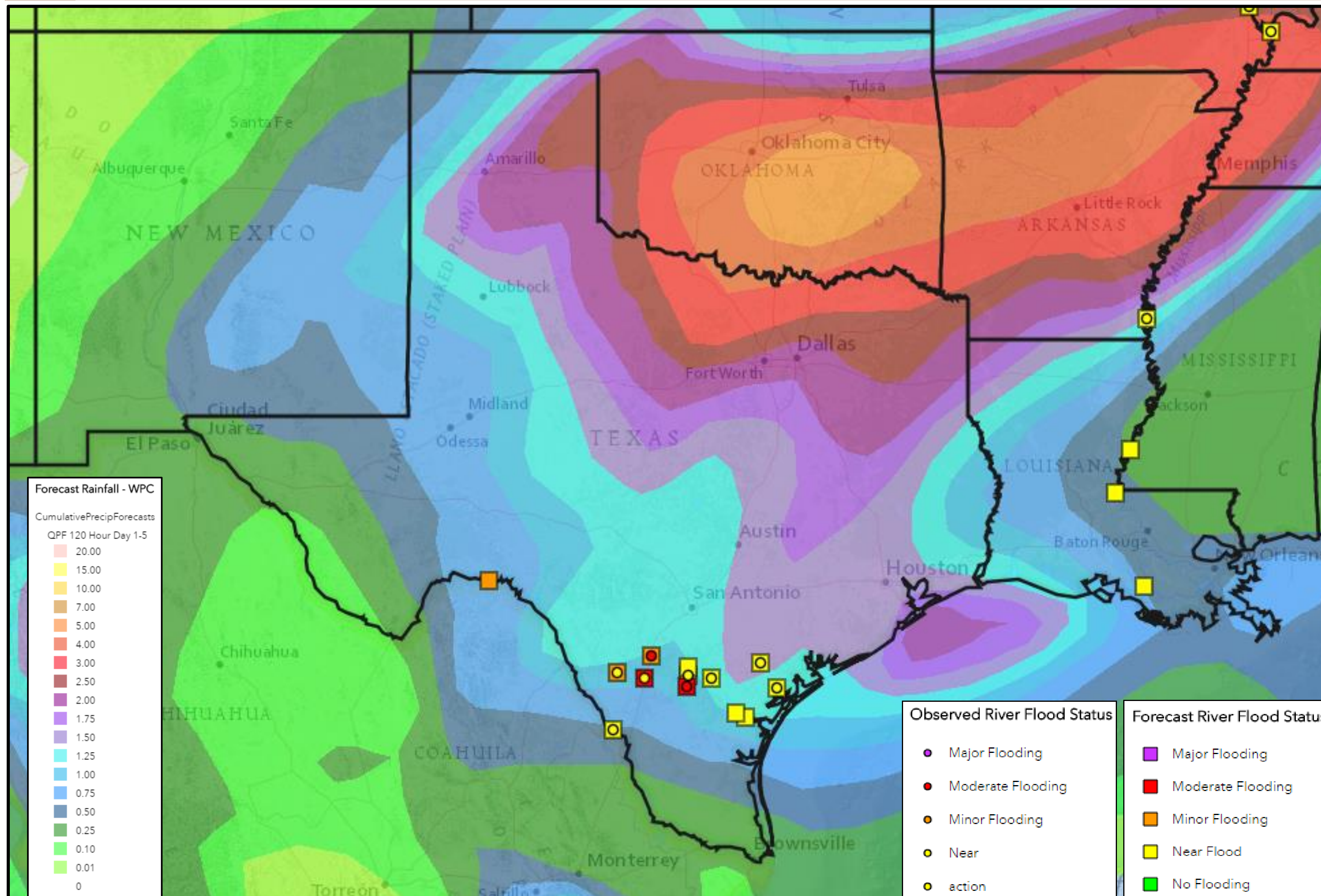


# 5-Day Precipitation Forecast & River Flood Status



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*Note: Even though the image displays 5 days of forecasted rainfall, river forecasts only include 1-2 days of rainfall*



**The Nueces River near Tilden will likely remain in Moderate Flood Stage through most of this week with another rise to near major flood late this week into next weekend.**

**Potential impacts include: Major lowland flooding of livestock, roads, irrigation pumps and tank batteries. Fencing is damaged as well as hunting cabins.**

**Additional rain is forecast in STX from Friday into this weekend. This may bump up current rises, but no significant impacts are expected at this time.**

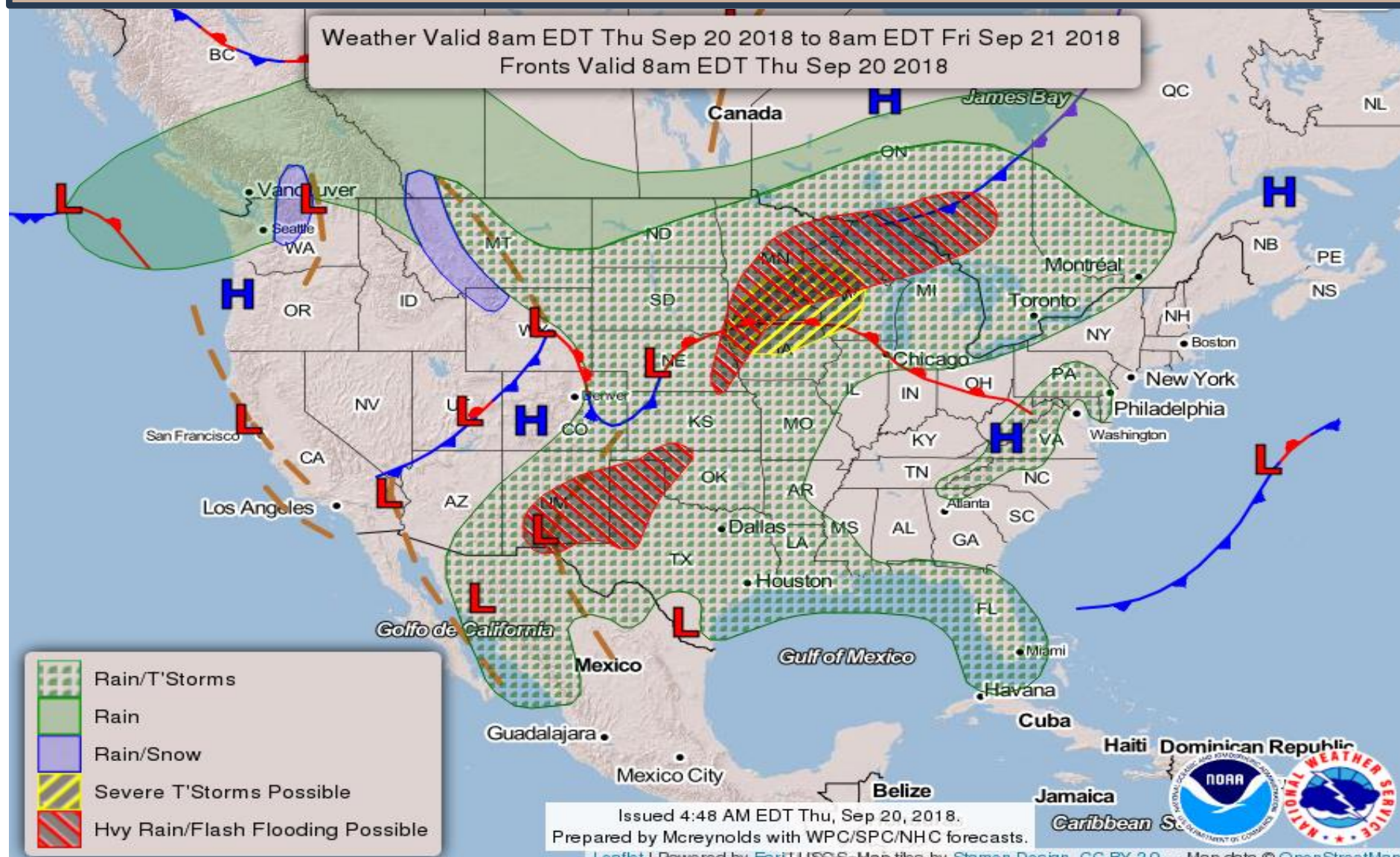
**Moderate to heavy rain over OK Friday into the weekend may result in isolated flooding at local rivers, streams, and creeks. Widespread significant river flooding is not expected at this time.**



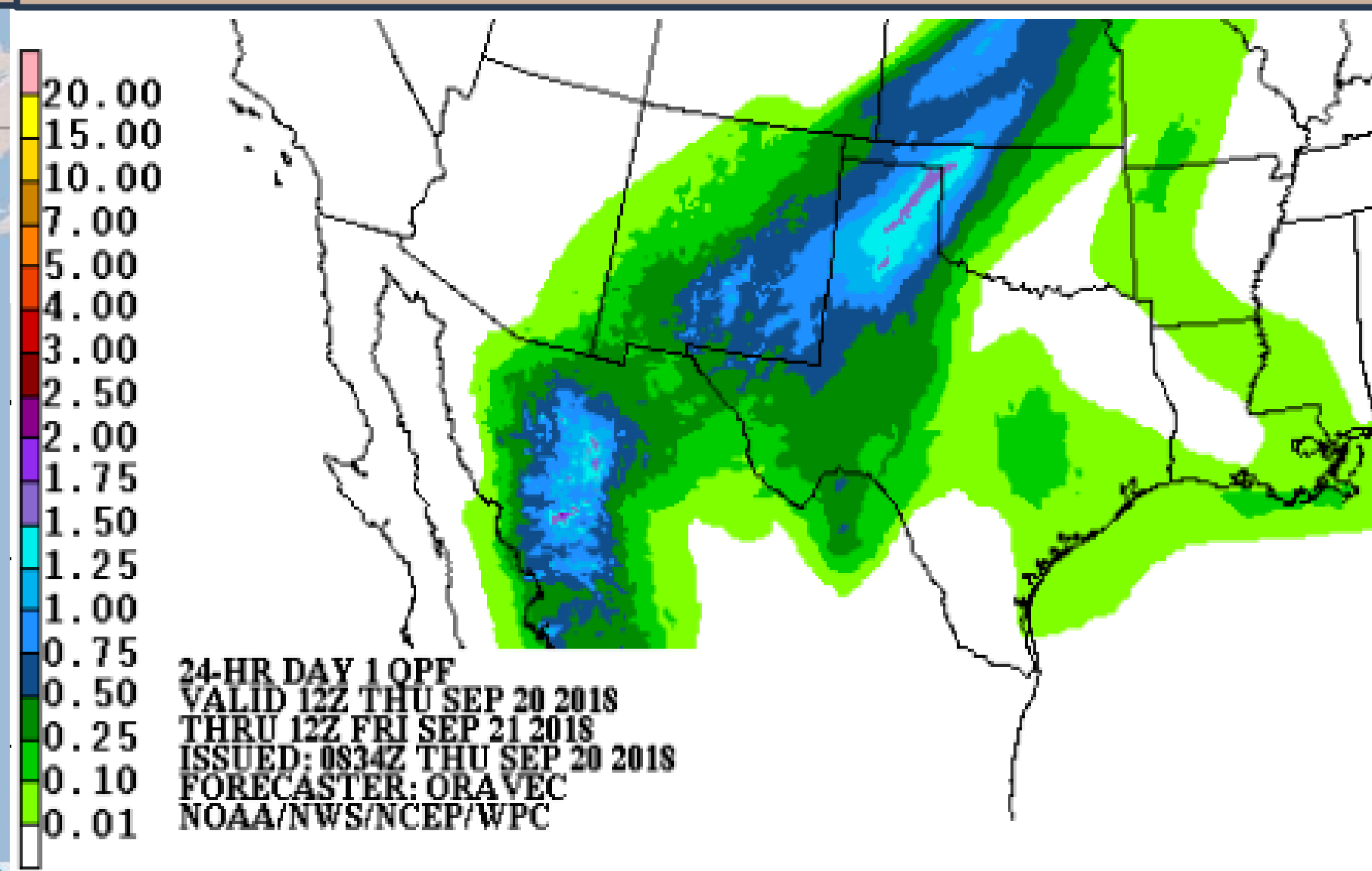
# Today's Weather



# Forecast Chart



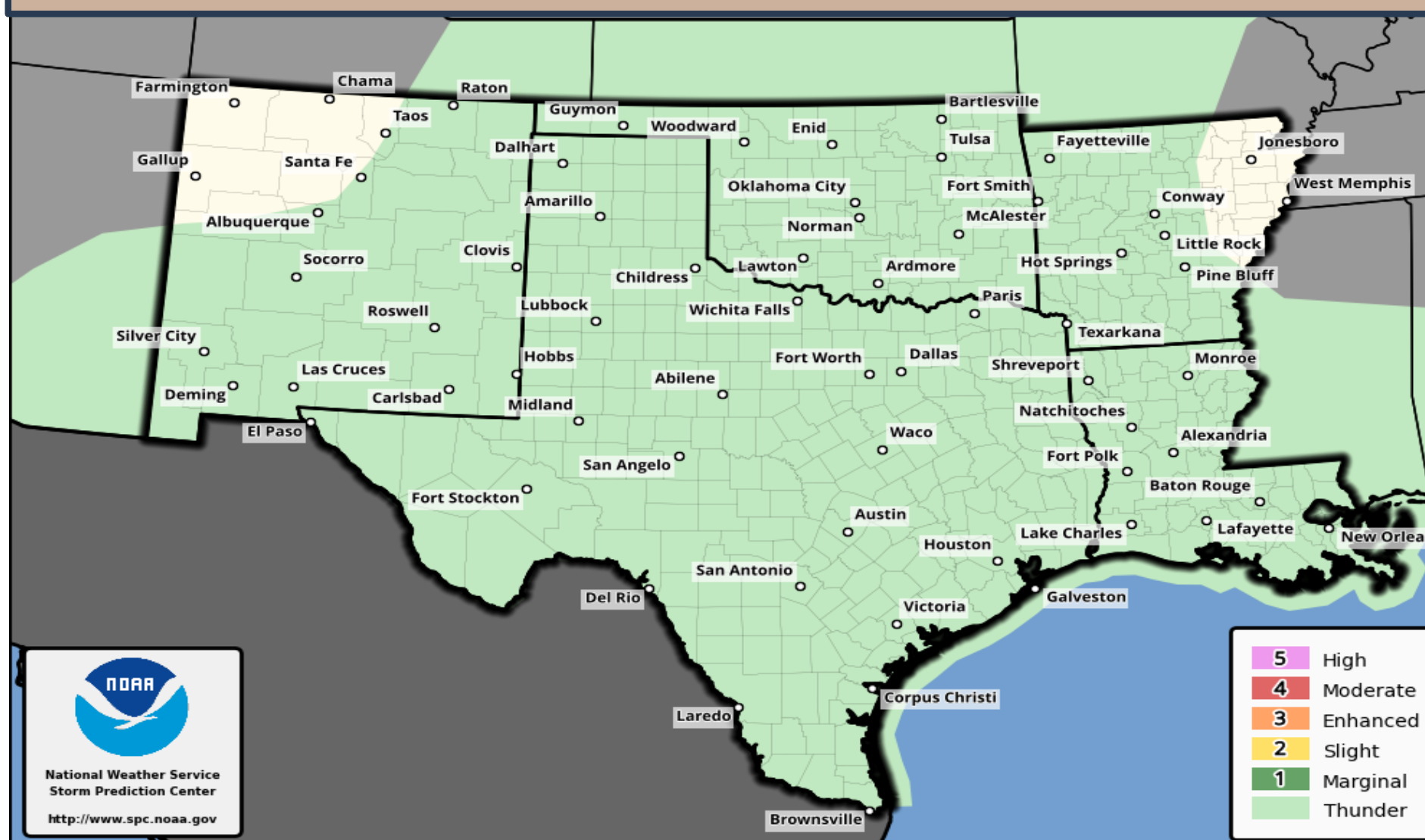
# Forecast Rainfall



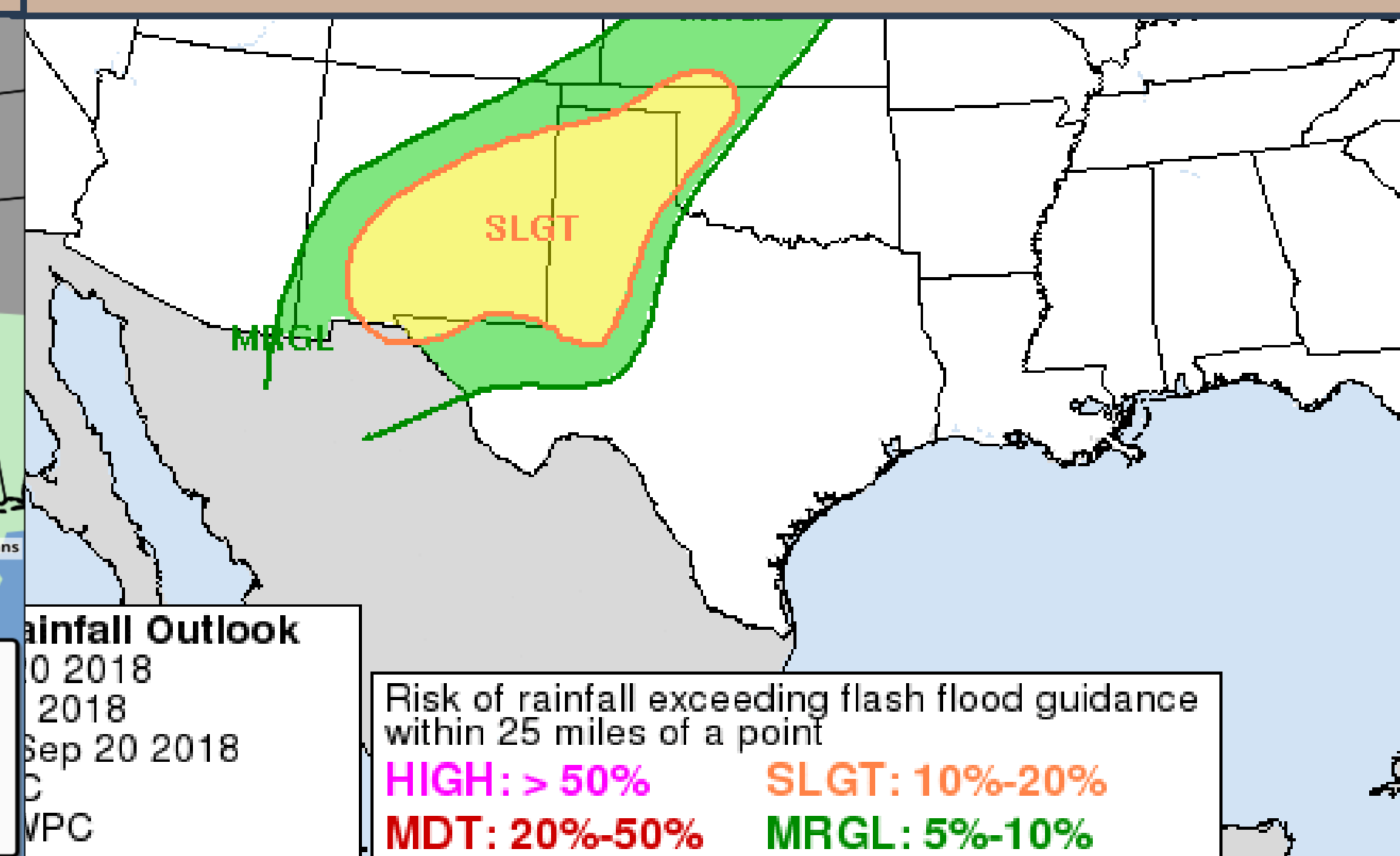
**Areas of heavy rain/  
flash flooding in  
S NM into W TX & the  
TX/OK Panhandles.**

**River Flooding will continue across STX. The Neuces River near Tilden is forecast to rise to around 18 ft by this evening.**

# Severe Weather Outlook



## Excessive Rainfall Outlook



**Potential Impacts: The flooding of livestock, roads, irrigation pumps and tank batteries occurs. Fences and hunting cabins are damaged.**



# Watches, Warnings, and Advisories



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## Fire Weather



Graphic Created

## Severe Weather & Flooding



Graphic Created

**Flash Flood Watches continue for Central and Southern NM into Far West TX for lingering flash flood threat today.**

**Flash Flood Watch in effect for NW TX into OK for heavy rain/flash flood threat beginning Friday.**

## Strong & Gusty Winds



Graphic Created

## Winter Weather



Graphic Created



# Tomorrow's Weather



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## Forecast Chart

## Forecast Rainfall

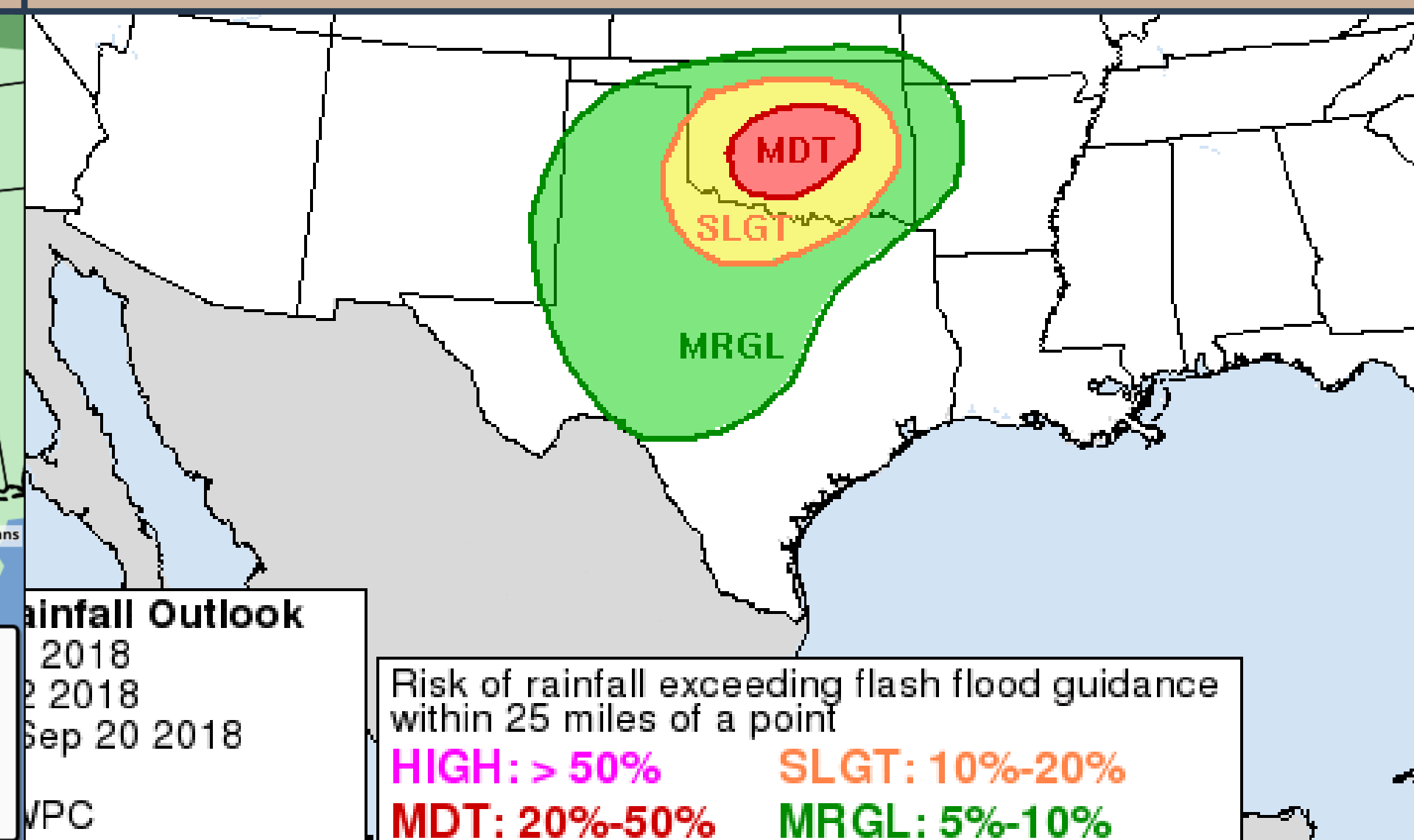
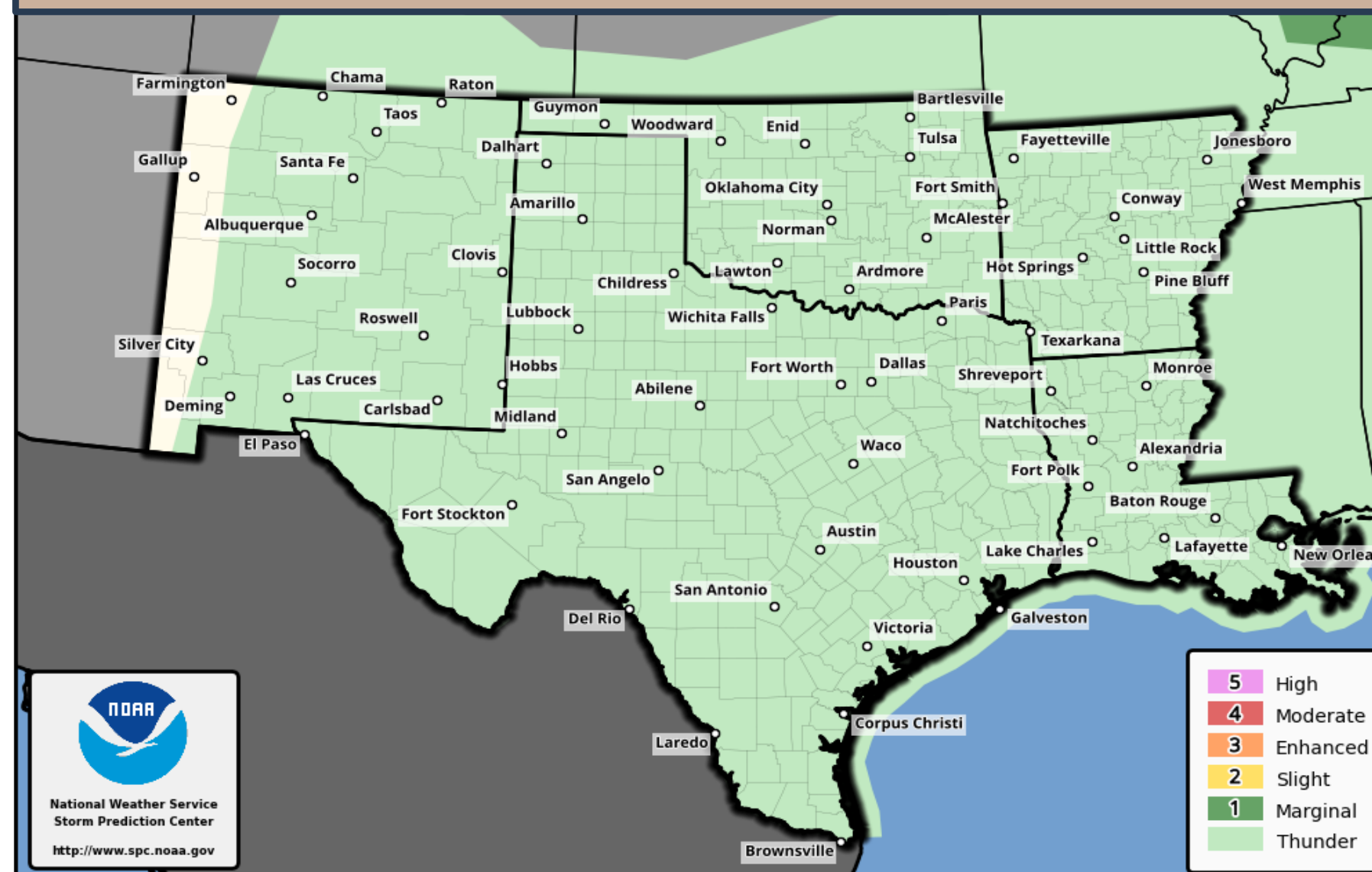
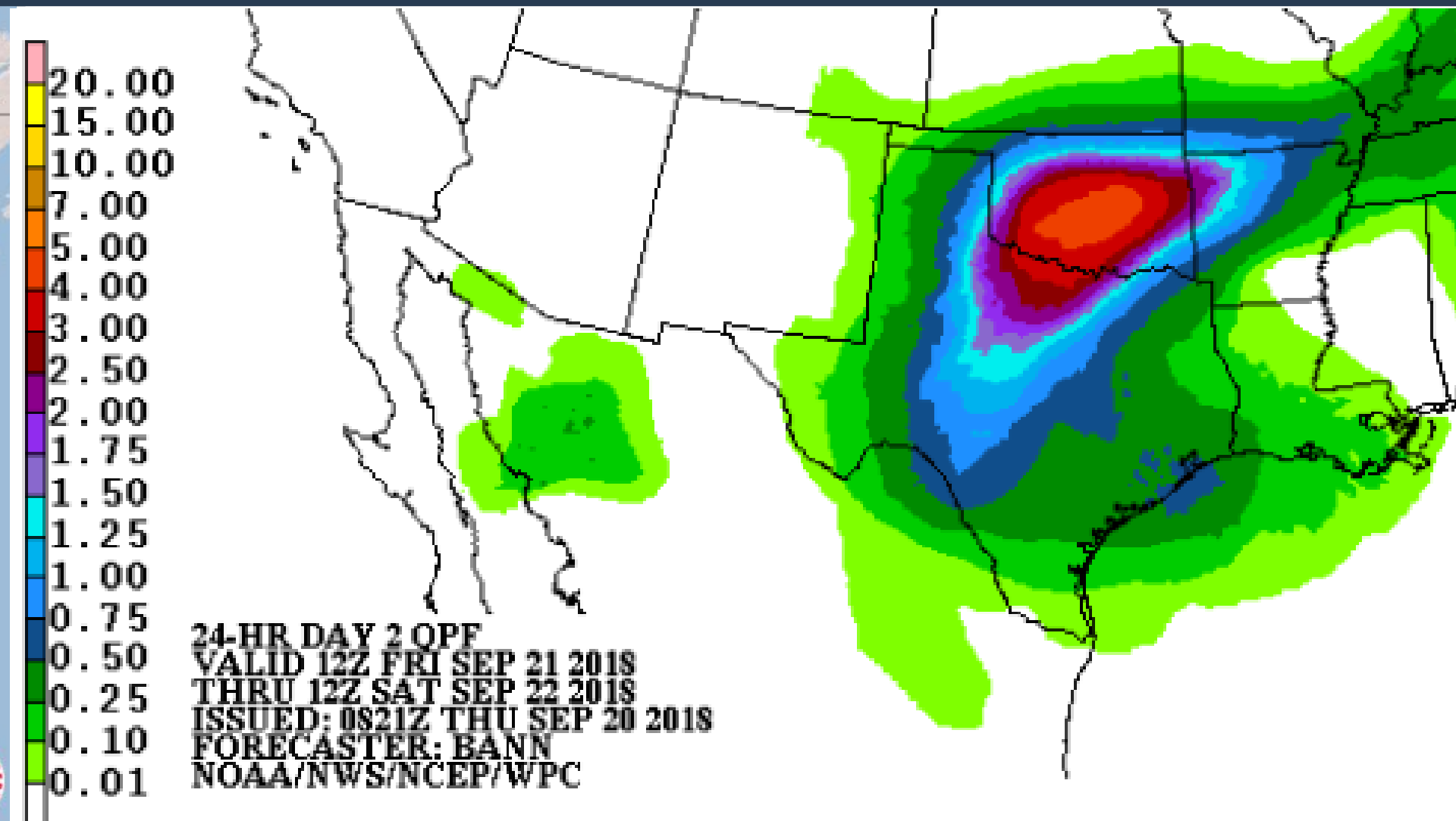
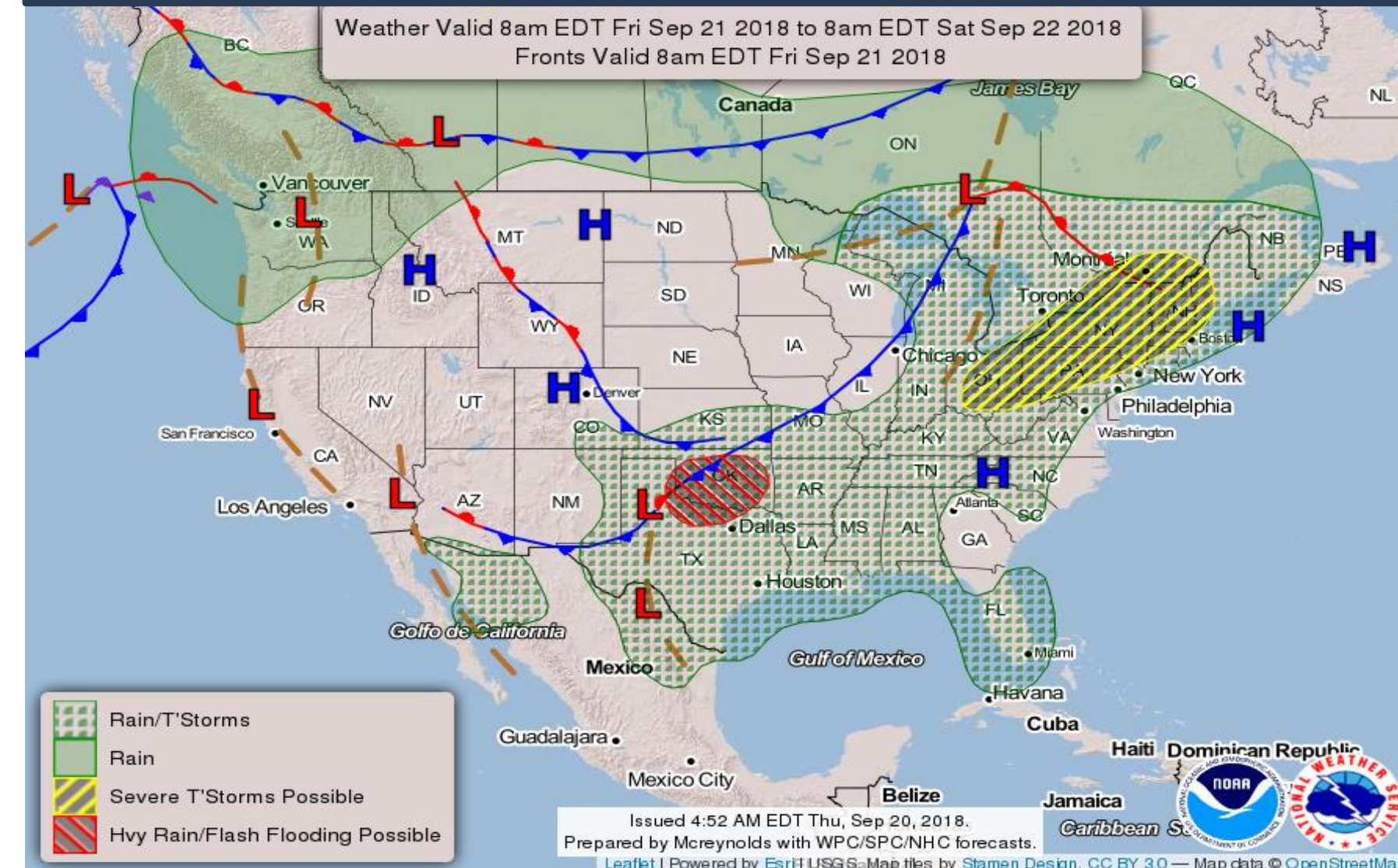
**Areas of heavy rain/  
flash flooding likely for  
Central and Southern OK  
(including OKC metro) into  
NW TX.**

**Isolated areas of heavy rain/  
flash flooding for  
North/West/Central TX.**

**River Flooding will continue  
across STX.**

## Severe Weather Outlook

## Excessive Rainfall Outlook



**Rainfall Outlook**  
2018  
2018  
Sep 20 2018  
WPC

Risk of rainfall exceeding flash flood guidance  
within 25 miles of a point  
**HIGH: > 50%** **SLGT: 10%-20%**  
**MDT: 20%-50%** **MRGL: 5%-10%**

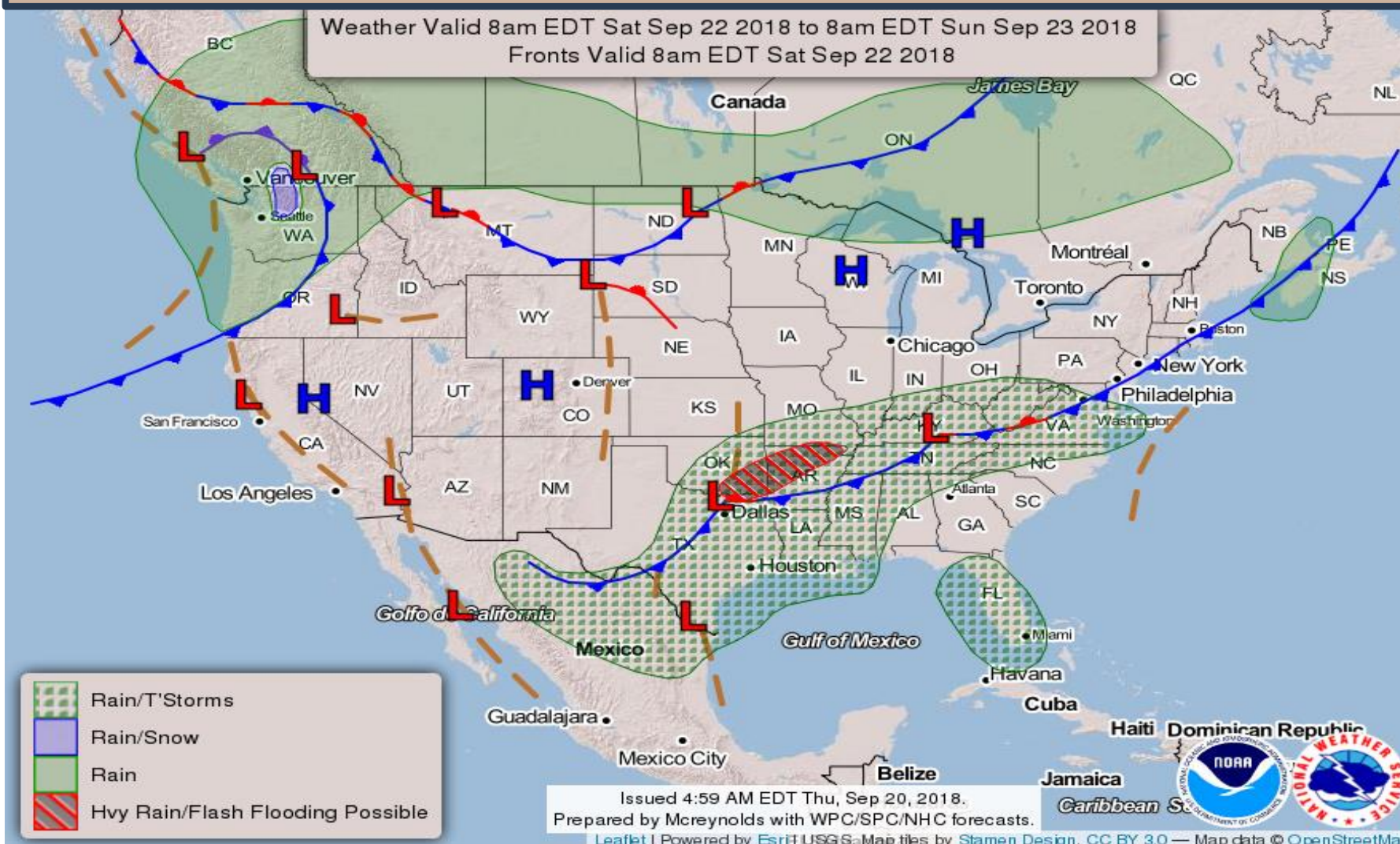


# Saturday's Weather

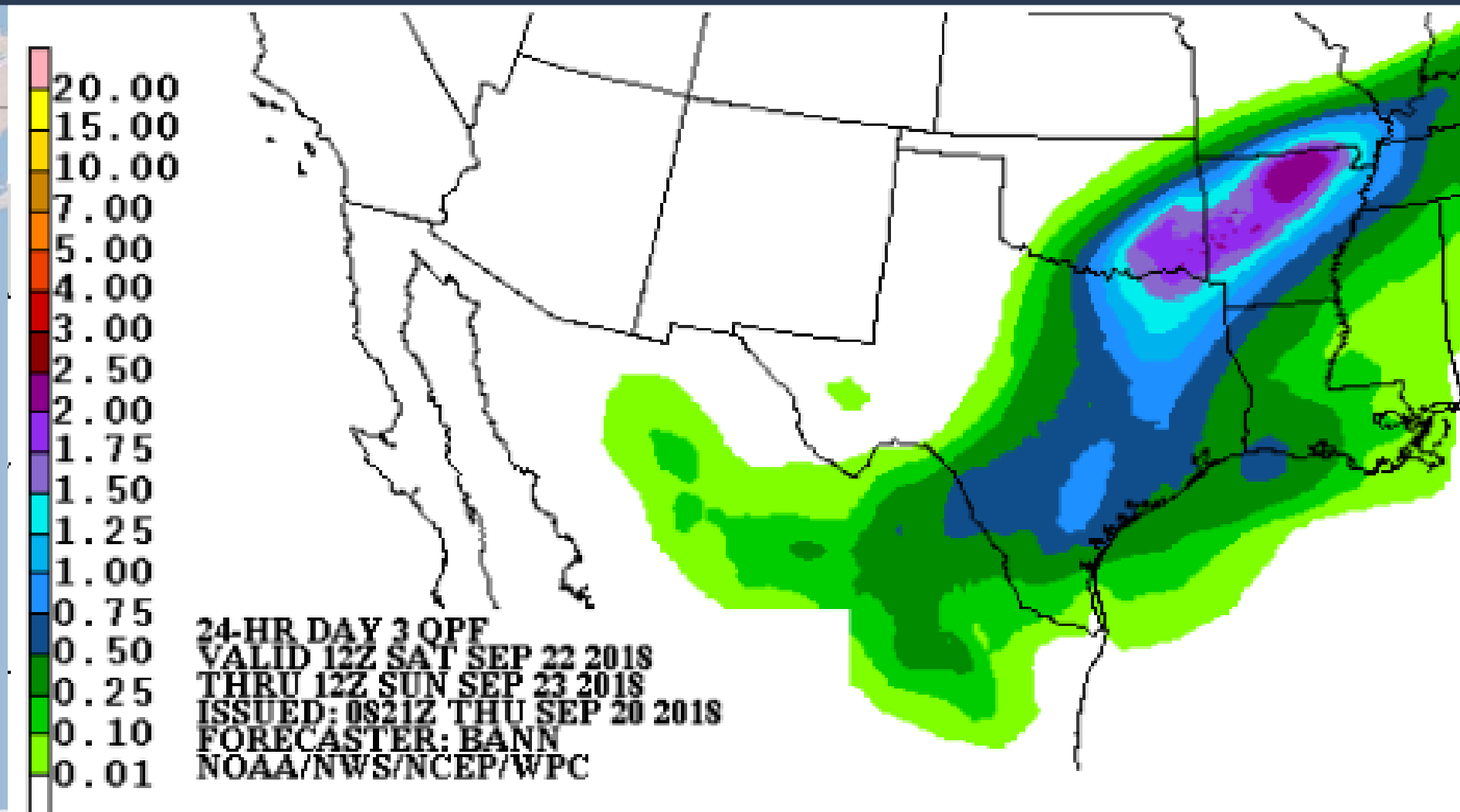


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## Forecast Chart



## Forecast Rainfall

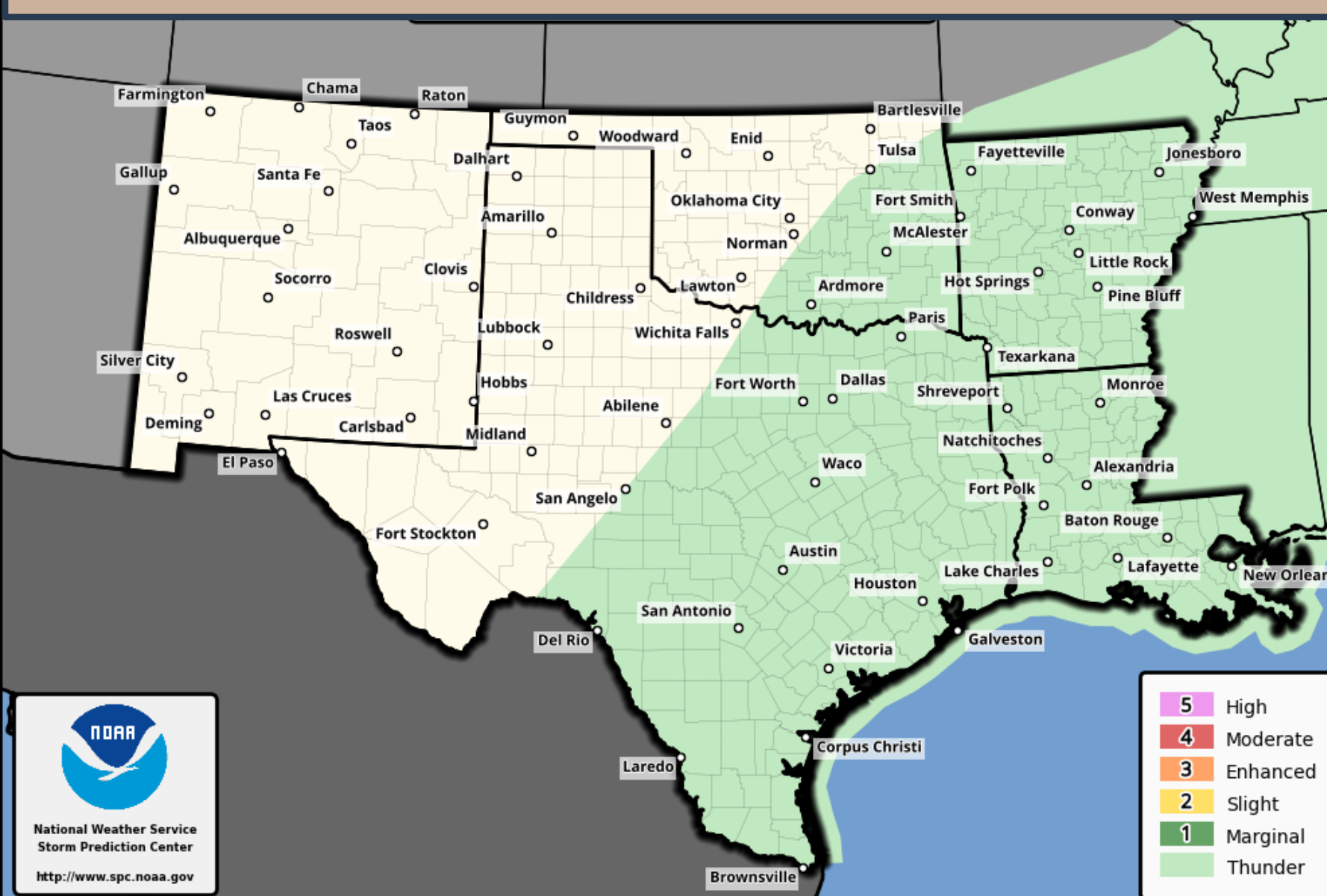


**Areas of heavy rain/  
flash flooding likely to  
continue for Central and  
Southern OK (including OKC  
metro) into NW TX into  
Saturday morning, possibly  
into early afternoon.**

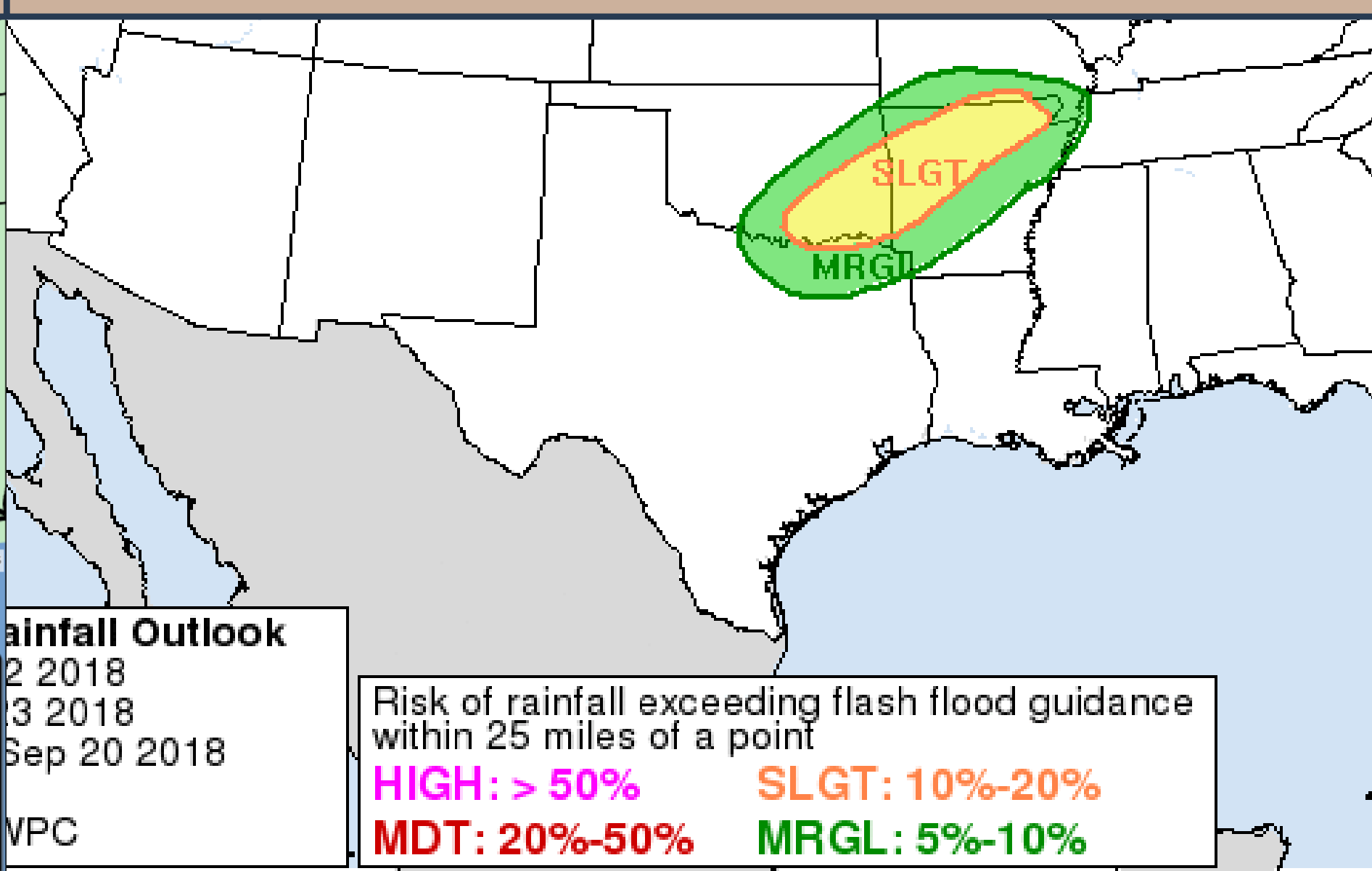
**Areas of heavy rain/  
flash flooding for SE OK into  
West/Central/Northern AR.**

**River flooding continues in  
STX.**

## Severe Weather Outlook



## Excessive Rainfall Outlook



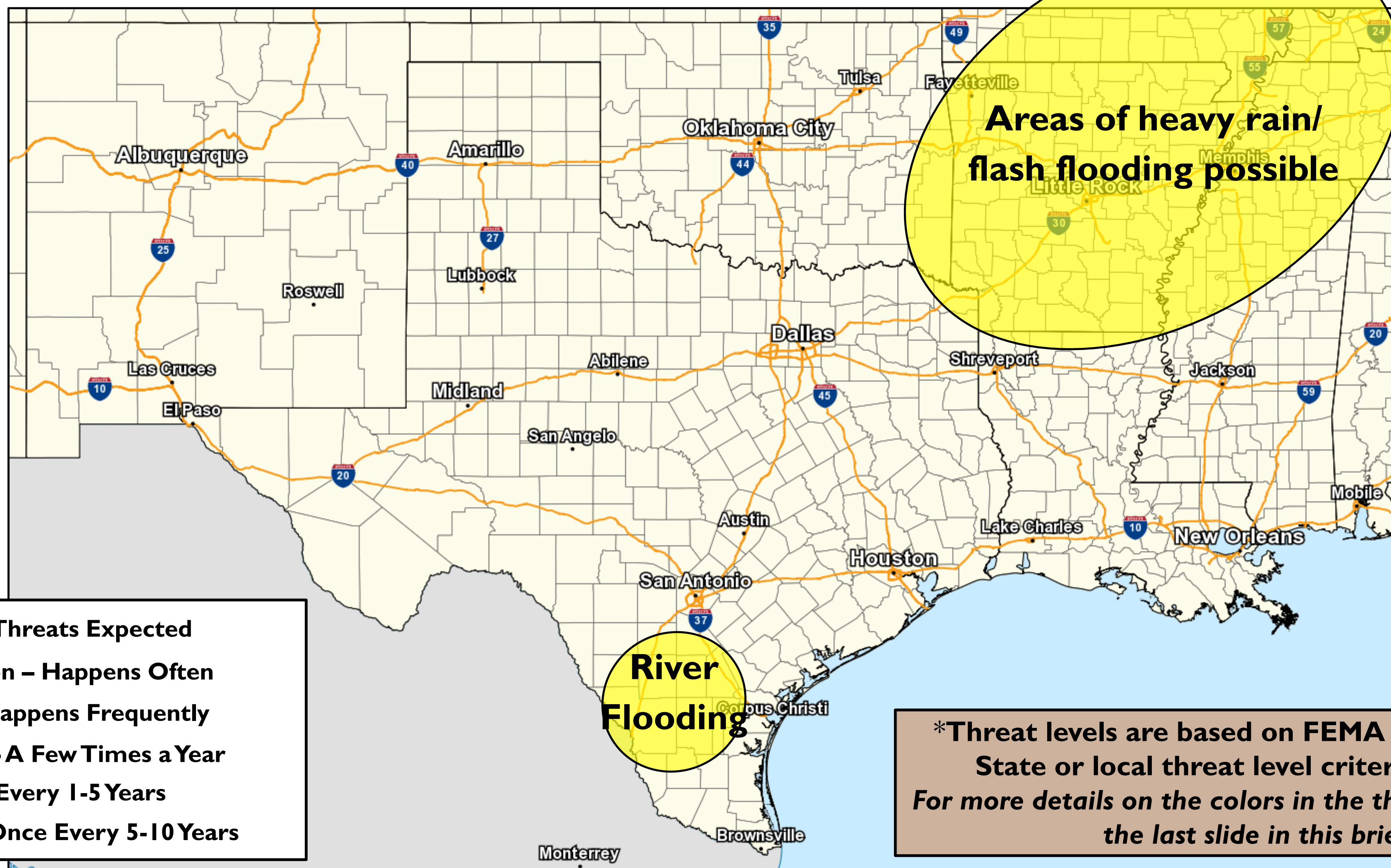


# Days 4-5 Weather Hazards

Sunday - Monday



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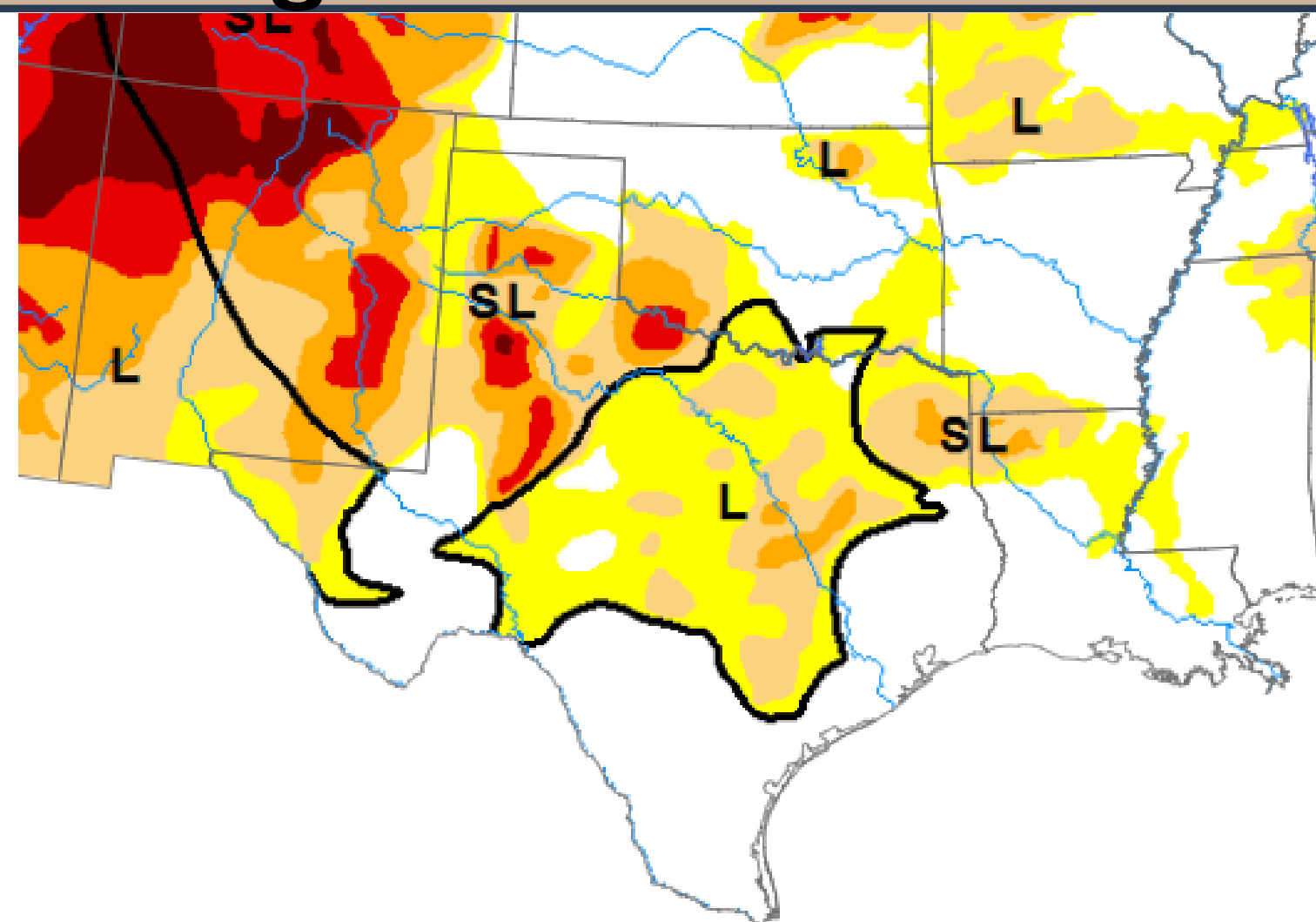
# Drought Monitor (Released September 20, 2018)



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Data valid as of 7am CDT, Tuesday, September 18, 2018

## Drought Monitor

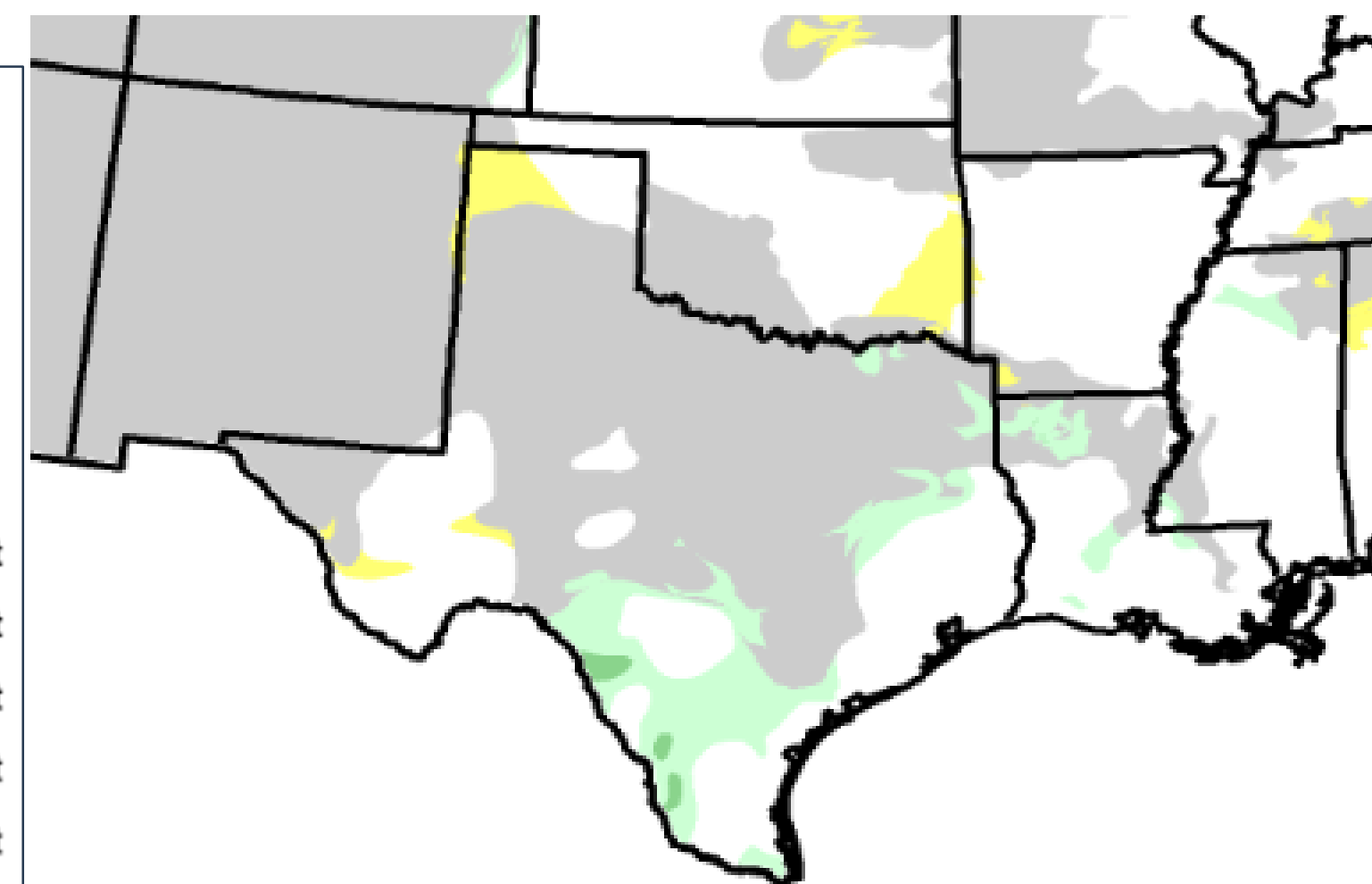


### Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

## One Week Change in Drought

- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement



## Drought Conditions (Percent Area) in D3-D4 (Extreme to Exceptional Drought)

State	Current	Last Week	3 Months Ago	1 Year Ago
Arkansas	0.00%	0.00%	0.00%	0.00%
Louisiana	0.00%	0.94%	0.00%	0.00%
Oklahoma	0.57%	0.57%	14.56%	0.00%
Texas	2.43%	2.43%	3.78%	0.00%
New Mexico	31.84%	31.84%	60.89%	0.00%

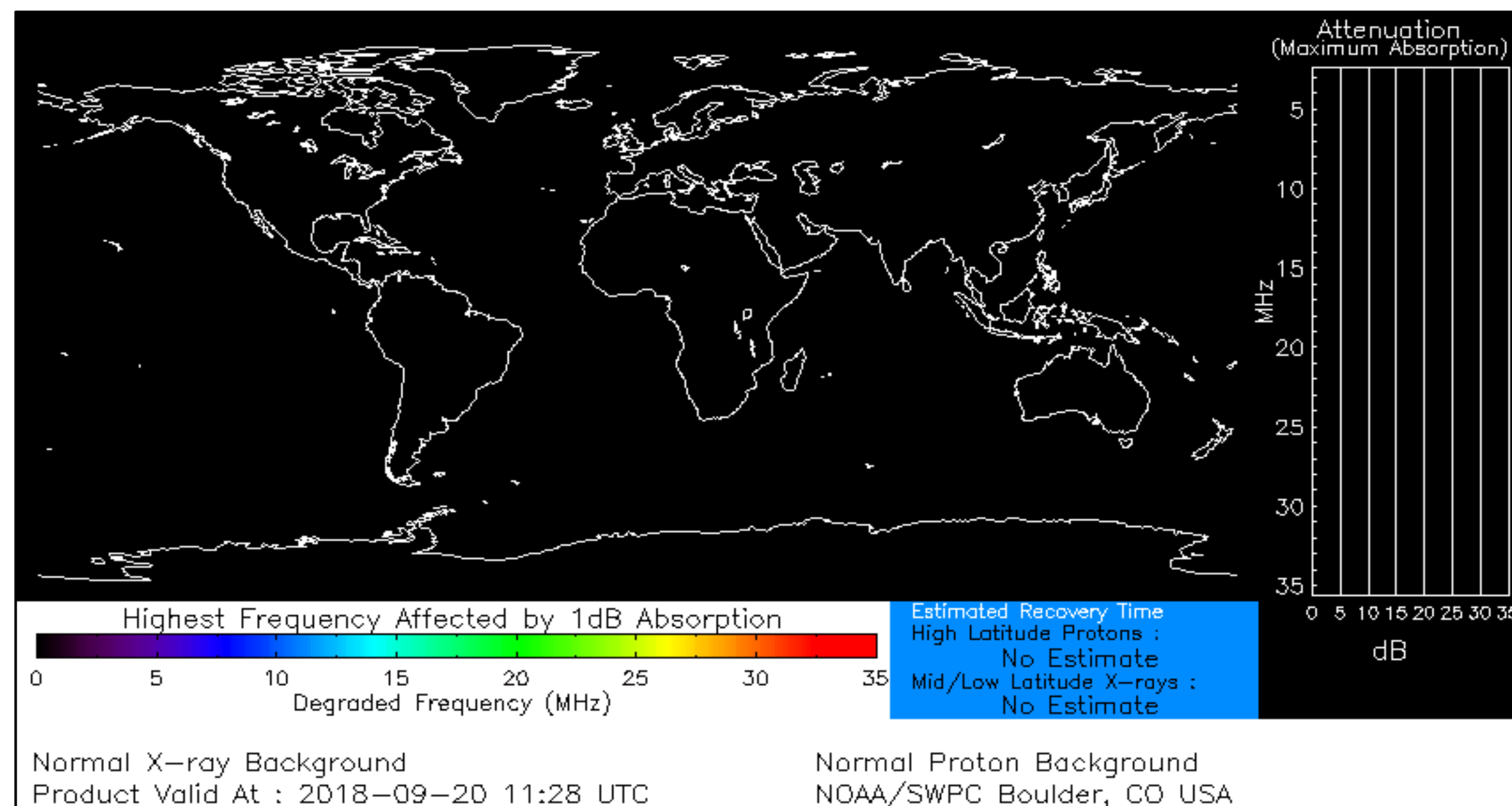


# Space Weather 3-Day Forecast



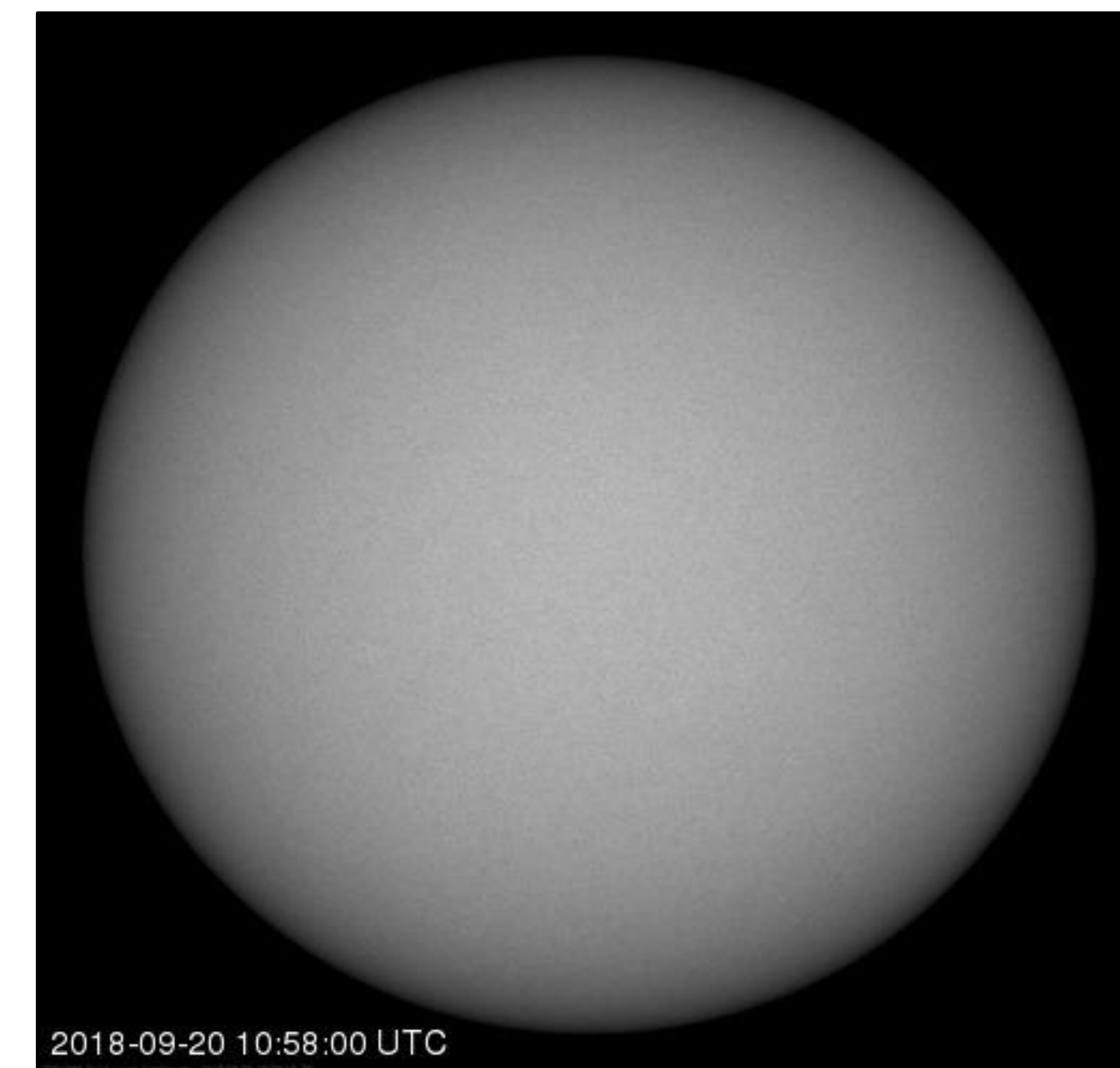
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	Thursday	Friday	Saturday
<b>Geomagnetic Storms</b>	<b>Quiet (Max Kp = 2)</b>	<b>Quiet (Max Kp = 2)</b>	<b>Unsettled to Active (Max Kp = 4)</b>
<b>Solar Radiation Storm (S1-S5)</b>	1%	1%	1%
<b>Radio Blackout (R1-R2)</b>	1%	1%	1%
<b>Radio Blackout (R3-R5)</b>	1%	1%	1%



[Click here for a Description of the Space Weather Storm Scales](#)

[Click here for the Latest 3-Day Space Weather Forecast Text](#)







# For more information, please contact:

**National Weather Service**  
Southern Region Headquarters  
Regional Operations Center  
Fort Worth, TX

Phone: (682) 703-3747

E-mail: [sr-srh.roc@noaa.gov](mailto:sr-srh.roc@noaa.gov)

Web: <http://www.weather.gov/srh>





Weather “Threat” Matrix			
Color	Definition	Criteria	Example(s)
Green	<b>Very Common</b> Safety: Rarely a Direct Threat to Life and Property Impact Potential: Typically Results in Little Inconvenience to Daily Routines	Severe: Marginal Risk from SPC Flooding: Minor flooding expected over localized areas Tropical: None Fire Weather: No Watches/Warnings, fuel moisture above 10% or green up active	<ul style="list-style-type: none"> <li>Thunderstorms expected over LA this afternoon; a few may produce winds to knock down a few trees</li> <li>Something that happens almost every day in a particular season such as <u>seabreeze</u> storms in coastal TX</li> </ul>
Yellow	<b>Somewhat Common – Happens Frequently</b> Safety: Rarely a Direct Threat to Life and Property Impact Potential: Typically Results in Some Inconvenience to Daily Life	Severe: Slight Risk from SPC Flooding: Nuisance flooded expected for a widespread area, or Minor flooding expected over isolated areas Tropical: A weak tropical wave expected to move towards or near any coastline Fire Weather: Red Flag Watches/Warnings and/or SPC outlines enhanced or critical fire outlook	<ul style="list-style-type: none"> <li>2-3 inches of rainfall expected over central AR today and tonight; some minor (brief) street flooding possible</li> <li>Scattered severe storms possible, one or two tornadoes expected, along with reports of strong winds/wind damage and ~1” hail</li> </ul>
Orange	<b>Uncommon – A Few Times a Year</b> Safety: Often Threatening to Life and Property, Some Damage Unavoidable Impact Potential: Typically Results in Minor Disruption to Daily Life	Severe: Enhanced Risk from SPC Flooding: Minor flooding expected over a widespread area (including urban locations), or Moderate flooding expected over isolated areas Tropical: A Tropical Storm expected to move towards or near any coastline Fire: Critical fire outlook for more than 2 consecutive days, Warnings for 2 or more consecutive days, D3-D4 drought conditions	<ul style="list-style-type: none"> <li>A snow/sleet mix is expected to move through or near the DFW area tomorrow morning; travel impacts likely</li> <li>Numerous severe storms possible, a few tornadoes possible along with several reports of wind damage along with damaging hail</li> <li>Some large fires reported, burn bans advertised, critical conditions expected</li> </ul>
Red	<b>Rare – Once every 1-5 Years</b> Safety: Extensive Property Damage Likely, Life Saving Actions Also will be Needed Impact Potential: Will likely result in Large Disruption to Daily Life	Severe: Moderate Risk from SPC Flooding: Moderate flooding expected over a widespread area (including urban locations) Tropical: A Hurricane expected to move towards or near any coastline Fire: Large areas of critical conditions for 2 or more days, Warnings for 3 or more days, Severe to extreme drought	<ul style="list-style-type: none"> <li>A Category 1 hurricane will be moving towards the NW Gulf in the next few days</li> <li>Widespread severe storms likely, strong tornadoes, widespread wind damage, and destructive hail</li> <li>Large fires ongoing throughout the area with critical fire weather conditions expected to continue</li> </ul>
Purple	<b>Very Rare – Once Every 5-10 Years</b> Safety: Property Damage Unavoidable, Immediate Action to Save Life will be Needed Impact Potential: Typically Results in Long-Lived Widespread Major Disruption to Daily Life	Severe: High Risk from SPC Flooding: Major flooding expected over a widespread area (including urban locations) Tropical: A Major Hurricane (Cat3 or greater) expected to move towards or near any coastline Fire: Large area of critical conditions for 2 or more days, Warnings for 3 or more days, Long term (months) of severe to extreme drought	<ul style="list-style-type: none"> <li>A Category 4 hurricane is headed towards the SE LA; major storm surge, flooding and damaging winds anticipated to begin tomorrow</li> <li>Widespread severe storms expected, tornado outbreak probable with long-lived, very widespread and particularly intense storms</li> </ul>

**Criteria for the color codes in this briefing is to the left, please provide any feedback to**

**[sr-srh.roc@noaa.gov](mailto:sr-srh.roc@noaa.gov)**